



First Annual Riparian Mitigation Monitoring Report for the

Crossings At Carlsbad Golf Course City of Carlsbad, California



NOVEMBER 2008

PREPARED FOR:
City of Carlsbad
Recreation Department
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DUDEK

**FIRST ANNUAL RIPARIAN MITIGATION
MONITORING REPORT**

for the

**CROSSINGS AT CARLSBAD GOLF COURSE
CARLSBAD, CALIFORNIA**

Prepared for:

**City of Carlsbad
Recreation Administration**
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Carlsbad, California 92008
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NOVEMBER 2008

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First Annual Riparian Mitigation Monitoring Report

The Crossings at Carlsbad Golf Course

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1.0 PROJECT INFORMATION

1.1 Permit Holders

City of Carlsbad
Recreation Administration
799 Pine Avenue, Suite 200
Carlsbad, California 92008
Contact person: Liz Katabian
760.434.2978 or LKeta@ci.carlsbad.ca.us

1.2 Permit Numbers

U.S. Army Corps of Engineers

- 404 Nationwide Permit No. SPL-972020600-RSS

California Department of Fish and Game

- Streambed Alteration Agreement No. 5-122-00

1.3 Project Location

The Crossings at Carlsbad Golf Course in Carlsbad, California is located at:

- Thomas Guide map page 1127, Grids A-2, A-3, B-2, and B-3
- The site is centered at approximately 33° 07' 49"N, 117° 18' 00"W

Figures 1 through 3 show the project site, which is bordered by Faraday Avenue to the north, Palomar Airport Road to the south, The Crossings Road to the west, and McClellan Palomar Airport to the east. Figure 3 shows the location of each of the individual mitigation sites within the golf course. For convenience and clarity, the sites are numbered 1 to 44 (this includes both coastal sage scrub and riparian mitigation sites). Mitigation sites 39, 41, 42, and 43 are riparian mitigation sites, the rest are coastal sage scrub mitigation sites and not discussed in this report.

1.4 Impacts and Mitigation

Approximately 0.91 acres of riparian vegetation communities were impacted during golf course construction (Table 1) and mitigated through the creation of 1.83 acres of riparian vegetation communities. A mitigation-to-impact ratio of 3:1. Although 1.83 acres of created riparian mitigation were required, approximately 6.94 non-contiguous acres of wetland and riparian habitat in Macario Canyon were created or enhanced.

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The mitigation areas shown in the *City of Carlsbad Revised Golf Course Riparian Mitigation Plan* (P&D Environmental 2003) (Mitigation Plan) were reconfigured during construction to accommodate changed field conditions and to account for a 0.216-acre unauthorized wetland impact that occurred during construction. The unauthorized impact has been mitigated at a 5:1 ratio, providing 1.08 acres. The 1.08 acres consists of 0.216 acre riparian creation (1:1 replacement ratio) and 0.864 acre riparian enhancement (4:1 replacement ratio) to compensate for this impact. The additional mitigation is being maintained and monitored on the same monitoring and maintenance schedule and with the same performance standards as described in the Mitigation Plan.

Table 1
Riparian Impact and Mitigation Requirements

Impacted habitat	Impacted (acres)	Mitigation to Impact Ratio	Mitigation (acres)
Mulefat scrub	0.46	3:1	1.38
Unvegetated channel	0.45	1:1	0.45
Riparian woodland (unauthorized impact)	0.216	5:1	1.08
Total	1.126		2.91

Installation of the riparian mitigation was completed, minus the container plants, on July 1, 2007, and was officially accepted by the City of Carlsbad (City) on August 6, 2007. Installation of the container plants was delayed until October 2007 due to problems at the nursery the landscape contractor had contracted with to grow the container stock (Dudek 2007). The five-year maintenance and monitoring period for the mitigation formally began on July 1, 2007. The riparian mitigation was installed in substantial conformance with Mitigation Plan. Maintenance of the riparian mitigation areas was taken over by Habitat Restoration Sciences (HRS) from the installation landscape contractor on July 1, 2007.

1.5 Mitigation Schedule

Table 2
Mitigation Schedule

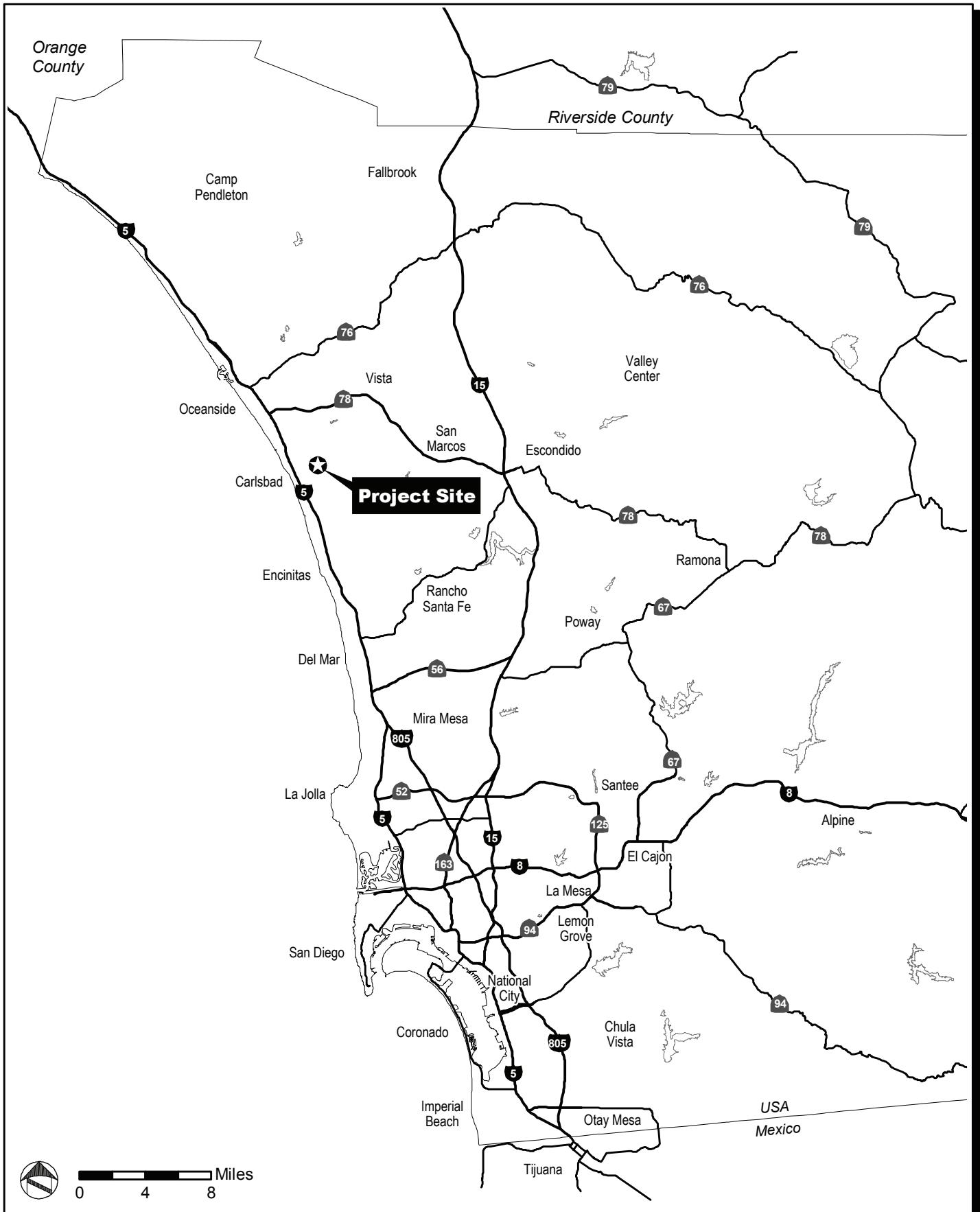
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2007							S					
2008							M		R			
2009							M		R			
2010							M		R			
2011							M		R			
2012							M		R, T			

S = Completion of the mitigation installation and start of the 5-year maintenance and monitoring period

M = Annual Transect Data Collection

R = Report due

T = Scheduled termination of the 5-year maintenance and monitoring period

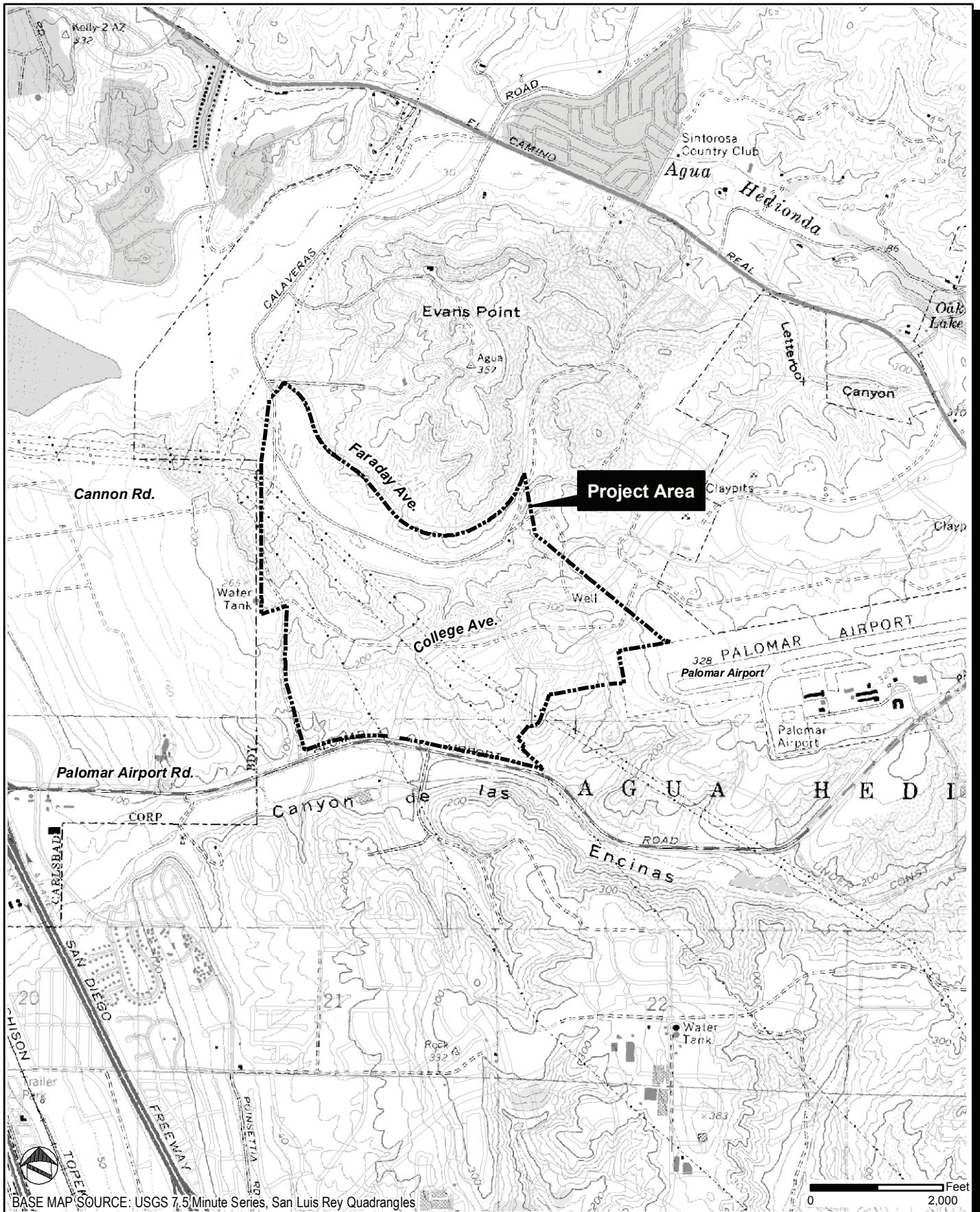


First Annual Riparian Mitigation Monitoring Report For the Crossings at Carlsbad
Regional Map

**FIGURE
1**

**First Annual Riparian Mitigation Monitoring Report
The Crossings at Carlsbad Golf Course**

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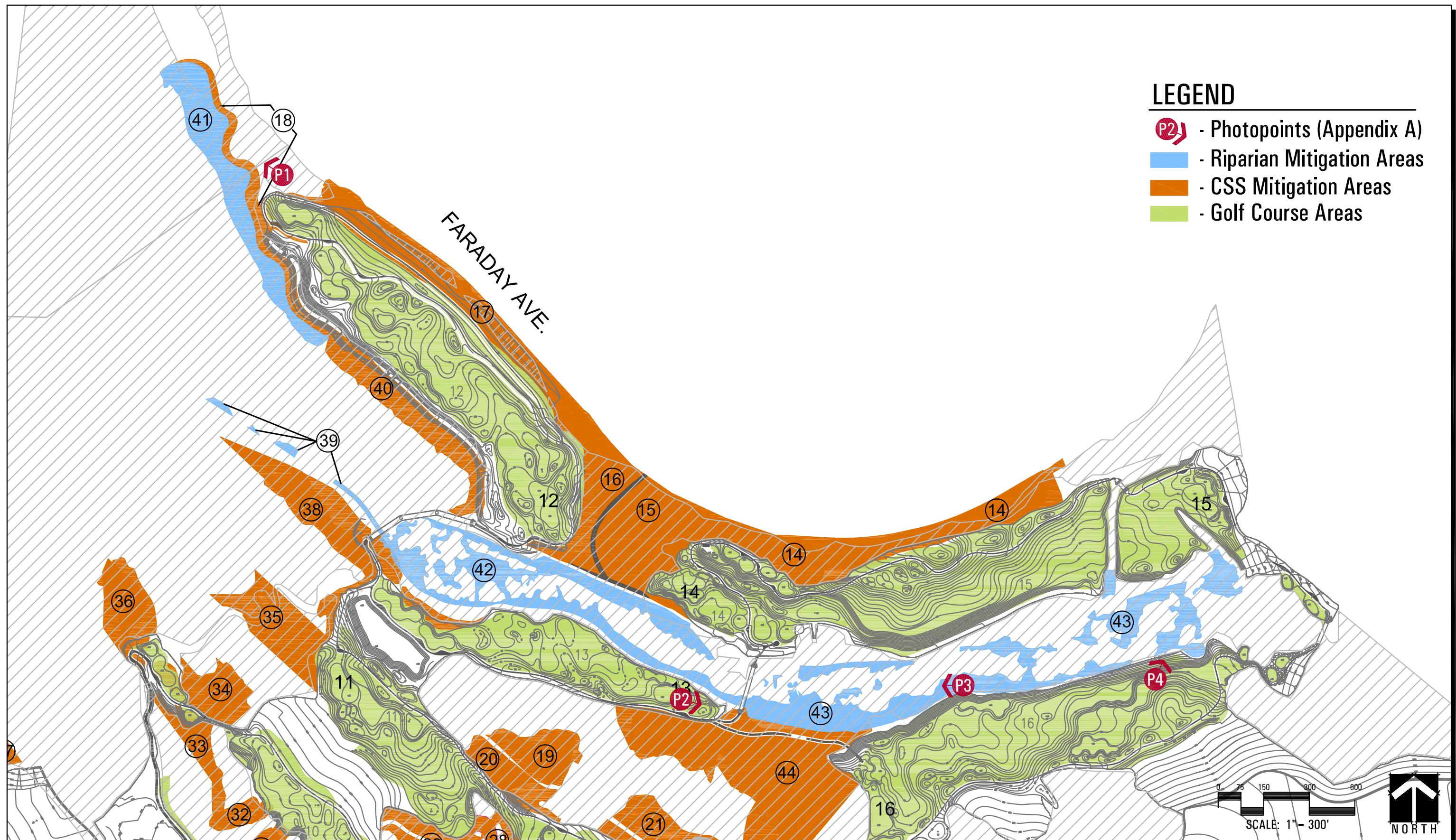


First Annual Riparian Mitigation Monitoring Report For the Crossings at Carlsbad
Vicinity Map

FIGURE
2

**First Annual Riparian Mitigation Monitoring Report
The Crossings at Carlsbad Golf Course**

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First Annual Riparian Mitigation Monitoring Report for the Crossings at Carlsbad
Mitigation Areas with Photopoints

FIGURE
3

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First Annual Riparian Mitigation Monitoring Report

The Crossings at Carlsbad Golf Course

1.6 Biological Consultant

Dudek
605 Third Avenue
Encinitas, California 92024
Contact person: Doug Gettinger 760.479.4285 or dgettinger@dudek.com

1.7 Landscape Maintenance Contractor

Habitat Restoration Sciences, Inc. (HRS)
650 Alpine Way
Escondido, California 92029
Contact person: Pete Trotta 760.479.4825x 3225 or ptrotta@hrs.dudek.com

1.8 Report Preparers

Botanical data collection: Stuart Fraser, Christopher Oesch, Jayme Timberlake, and Ruth Vallejo
Report preparation: Doug Gettinger, Christopher Oesch, and Jayme Timberlake
Word processing: Bethany Andreen and Mark Lathram
Graphics: Stuart Fraser
Project Manager and report review: Michael Sweesy

2.0 RESULTS OF ANNUAL MONITORING

Qualitative monitoring in Year One consisted of characterizing site development, assessing plant health and vigor, reviewing the success of maintenance, and assessing remedial measures. Quantitative monitoring in Year One consisted of collecting botanical transect data and compiling a list of plant species growing in the mitigation areas.

As of the first annual transect data collection, total native plant cover is 36% and non-native plant cover is 23% (Table 3). A total of 33 plant species were recorded in the mitigation areas, 19 native (56%) and 14 non-native (42%).

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Table 3
Riparian Transect Data by Year

Transect Number	Year 1	Year 2	Year 3	Year 4	Year 5
	Percent Cover				
Native					
1	18				
2	28				
3	80				
4	78				
5	26				
6	4				
7	6				
8	18				
9	26				
10	64				
11	36				
12	16				
13	14				
14	46				
Riparian Transect Summary					
Absolute Cover					
Total Vegetative Hits and % Cover	58.6				
Total Native Hits and % Cover	35.9				
Total Exotic Hits and % Cover	22.7				
Total Bare/Litter % Absolute Cover					
Relative Cover					
Total Veg. % Relative Cover	53.7				
Total Native % Relative Cover	32.9				
Total Non-native % Relative Cover	20.8				
Total Bare/Litter % Relative Cover	46.3				

Volunteer native recruitment is making a contribution to some areas. Native recruitment by species not planted in the riparian mitigation areas includes watercress (*Rorippa nasturtium-aquatica*), tall flatsedge (*Cyperus eragrostis*), fireweed (*Epilobium angustifolium*) and bulrush (*Typha* sp.).

Weed cover was moderate throughout the riparian mitigation areas. The primary weed species appear to be bristly ox-tongue (*Picris echioides*) and rabbit's foot grass (*Polypogon monspeliensis*).

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Due to excessive rainfall in the winter months, prolonged ponding was observed in the westernmost riparian mitigation area (Area 41). This area held water for longer than was intended during project design. Because this excessive ponding occurred shortly after the container plants were installed, it is believed that container plant establishment may have been negatively effected, allowing non-target native wetland plant species, and non-native plants to establish on the bare ground. Once the site began to dry out, container plants and target native species began to establish.

Appendix A shows photo views of each of the riparian mitigation sites shortly after planting and at the first annual monitoring in June 2008. Appendix B provides a floral species list for the riparian mitigation areas, Appendix C shows the specific plant cover for each botanical transect, and Appendix D shows photos of each transect.

3.0 COMPARISON OF MONITORING RESULTS WITH SUCCESS STANDARDS

The annual performance standards for the riparian mitigation areas shall attain the interim and ultimate performance criteria in accordance with the Mitigation Plan and permits, as shown in Tables 4 and 5, and Graph 1.

Table 4
Five-Year Performance Standards for The Crossings at
Carlsbad Riparian Mitigation Areas

Year	Performance Criteria		Actual Performance Criteria	
	Percent Survival ¹ (%)	Percent Cover ² (%)	Percent Survival ¹ (%)	Percent Cover ² (%)
1	100	25	100	36
2	80	50	—	—
3	80	75	—	—
4	80	80	—	—
5	80	90	—	—

SOURCE: Mitigation Plan and project permits

¹ Percent Survival = total percentage survival of all container plants.

² Percent Cover = total percent cover of all native plant species, including trees, shrubs, and herbs.

Note: Mitigation site must remain free of non-native invasive plant species

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Graph 1

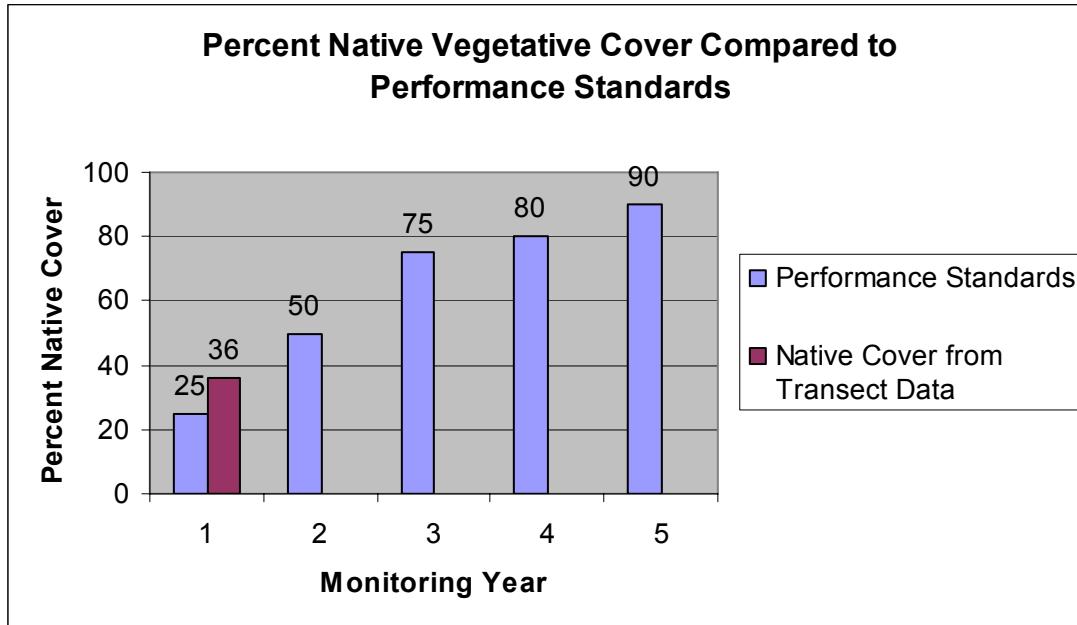


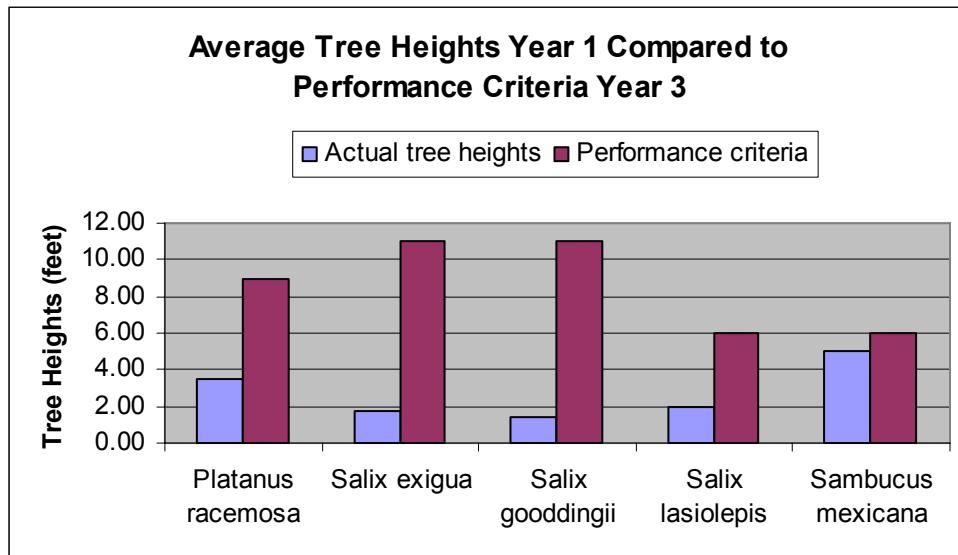
Table 5
Average Tree Heights Riparian Mitigation Area Year 1

Tree Species	Average Tree Heights (feet)	Performance Criteria Year 3 (feet)
<i>Platanus racemosa</i>	3.5	9
<i>Salix exigua</i>	1.8	11
<i>Salix gooddingii</i>	1.5	11
<i>Salix lasiolepis</i>	1.9	6
<i>Sambucus mexicana</i>	5.0	6

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Graph 2



In addition to the above listed criteria, the riparian mitigation areas need to also meet the following at the end of Year Five:

Non-native plants shall have a cover no greater than 5%.

Bare ground shall have a cover of no greater than 5%.

Site shall have received no irrigation for at least two consecutive years.

Meets 100% container stock survival standard? No, but mitigated by recruitment.

Meets 25% native cover standard? Yes, 36%.

Meets Year 5 standard of no more than 5% non-native cover? No, 23% in Year 1.

Meets Year 5 standard of no more than 5% bare ground? No, 51% in Year 1.

Meets Year 3 tree height standards? No, project only in Year 1 (see Graph 2).

4.0 RECOMMENDED REMEDIAL MEASURES

During Year One, remedial maintenance was recommended to assist with weed control, container plant establishment, and to address the excessive ponding that occurred in riparian mitigation Area 41.

For Year Two, Dudek recommends the following remedial measures to help ensure the project stays on track to meet its fifth-year performance standards.

1. Continue controlling perennial invasive exotic weed species wherever they are encountered, including Australian saltbush (*Atriplex semibaccata*), pampas grass (*Cortaderia* species), common Bermuda grass (*Cynodon dactylon*), fennel (*Foeniculum vulgare*), myoporum (*Myoporum laetum*), tree tobacco (*Nicotiana glauca*), Bermuda

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buttercup (*Oxalis pes-caprae*), castor bean (*Ricinus communis*), and tamarisk (*Tamarix ramosissima*).

Continue controlling competitive annual weed species, including black mustard (*Brassica nigra*), tocalote (*Centaurea melitensis*), horseweed (*Conyza canadensis*), garland chrysanthemum (*Chrysanthemum coronarium*), California burclover (*Medicago polymorpha*), sweetclover (*Melilotus* species), iceplant (*Mesembryanthemum* species), bristly ox-tongue (*Picris echioides*), Russian thistle (*Salsola tragus*), sow-thistle (*Sonchus* species), and non-native annual grasses. Control annual weeds early in their growth cycles so that they do not become competitive with the natives.

All applicable laws, regulations, label directions, and safety precautions must be followed when performing pest control. The landscape maintenance supervisor should consult a licensed Pest Control Adviser if specific Pest Control recommendations are required.

2. Continue to operate the irrigation system, as needed, to make sure container installed plants become established and grow. Inspect and repair the irrigation system as needed. Keep the irrigation system off for as long as possible during the winter rainy season. Irrigation will probably be discontinued in mitigation areas by next spring. Dudek will determine if irrigation should be continued or not in consultation with the landscape maintenance contractor during the late winter or early spring 2009.
3. As noted in site observation report number 18, dated 4/23/08, Dudek recommends that following the nesting bird season, and before the onset of the rainy season for Fall 2008, that drainage channels be created in Area 41 to reduce the duration and magnitude of ponding. The maintenance contactor should coordinate with Dudek for specific location and timing of construction activities.

5.0 REFERENCES

Dudek. 2007. Personal conversation with Douglas Gettinger. April.

P&D Environmental. 2003. *City of Carlsbad Revised Golf Course Riparian Mitigation Plan*. December.

APPENDIX A

Photo Views

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Photopoint #1 - Area 41 (01/08)



Photopoint #2 - Area 43 (02/07)



Photopoint #3 - Area 43 (07/07)



Photopoint #1 - Area 41 (07/08)



Photopoint #2 - Area 43 (07/08)



Photopoint #3 - Area 43 (07/07)

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Photopoint #4 - Area 43 (09/07)



Photopoint #4 - Area 43 (07/08)

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APPENDIX B

Vascular Plant Species List

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APPENDIX B

Vascular Plant Species List

ANGIOSPERMAE (DICOTYLEDONES)

ANACARDIACEAE – SUMAC FAMILY

- * *Schinus terebinthifolius* – Brazilian pepper tree

APOCYNACEAE – DOGBANE FAMILY

- * *Nerium oleander* – oleander

ARALIACEAE – GINSENG FAMILY

- * *Hedera canariensis* – Algerian ivy

APIACEAE – CARROT FAMILY

- * *Apium graveolens* – celery

ASTERACEAE – SUNFLOWER FAMILY

- Ambrosia psilostachya* – western ragweed
- Artemisia douglasiana* – mugwort
- Artemisia dracunculus* – tarragon
- Artemisia palmeri* – San Diego sagewort
- * *Aster* sp. – slender aster
- Baccharis salicifolia* – mulefat
- * *Carduus pycnocephalus* – Italian thistle
- * *Centaurea melitensis* – Malta star-thistle
- Conyza canadensis* – horseweed
- * *Cotula coronopifolia* – African brass-buttons
- * *Delairea odorata* – German ivy
- * *Gnaphalium luteo-album* – white cudweed
- Isocoma menziesii* – coastal goldenbush
- * *Picris echioides* – bristly ox-tongue
- Pluchea odorata* – salt marsh-fleabane
- * *Silybum marianum* – milk thistle
- * *Sonchus asper* – spiny sow-thistle
- * *Sonchus oleraceus* – common sow-thistle
- * *Xanthium strumarium* – cocklebur

BRASSICACEAE – MUSTARD FAMILY

- * *Brassica nigra* – black mustard
- * *Lepidium latifolium* – perennial pepperweed
- Rorippa nasturtium-aquaticum* – water cress

APPENDIX B (Continued)

CHENOPodiACEAE – GOOSEFOOT FAMILY

- * *Atriplex semibaccata* – Australian saltbush
- Atriplex triangularis* – saltbush
- * *Chenopodium murale* – nettle-leaved goosefoot
- Salicornia virginica* – common pickleweed

CONVOLVULACEAE – MORNING-GLORY FAMILY

Calystegia macrostegia – morning-glory

FABACEAE – PEA FAMILY

- * *Melilotus indica* – Indian sweet clover

GROSSULARIACEAE – Currant Family

Ribes speciosum – fuschia-flowered gooseberry

MALVACEAE – MALLOW FAMILY

- Malcothamnus fasciculatus* – chaparral mallow
- * *Malva parviflora* – cheeseweed

MYOPORACEAE – MYOPORUM FAMILY

- * *Myoporum laetum* – myoporum

ONAGRACEAE – EVENING-PRIMROSE FAMILY

Epilobium angustifolium – fireweed
Oenothera speciosa – pinkladies

POLYGONACEAE – BUCKWHEAT FAMILY

- * *Rumex crispus* – curly dock

PLATANACEAE – SYCAMORE FAMILY

Platanus racemosa – western sycamore

PRIMULACEAE – PRIMROSE FAMILY

- * *Anagallis arvensis* – scarlet pimpernel

ROSACEAE – ROSE FAMILY

Rosa californica – California rose
Rubus ursinus – California blackberry

APPENDIX B (Continued)

SALICACEAE – WILLOW FAMILY

- Populus fremontii* – Fremont cottonwood
- Salix exigua* – narrow-leaved willow
- Salix gooddingii* – black willow
- Salix lasiolepis* – arroyo willow

SAURURACEAE – LIZARD'S-TAIL FAMILY

- Anemopsis californica* – yerba mansa

SOLANACEAE – NIGHTSHADE FAMILY

- * *Datura wrightii* – western jimsonweed

TAMARICACEAE – TAMARISK FAMILY

- * *Tamarix ramosissima* – tamarisk

VITACEAE – GRAPE FAMILY

- Vitis girdiana* – desert wild grape

ZYGOPHYLLACEAE – CALTROP FAMILY

- * *Tribulus terrestris* – puncture vine

ANGIOSPERMAE (MONOCOTYLEDONES)

ARECACEAE – PALM FAMILY

- * *Washingtonia robusta* – Mexican fan palm

CYPERACEAE – SEDGE FAMILY

- Cyperus squarrosus* – bearded flatsedge
- Scirpus robustus* – Pacific coast bulrush

JUNCACEAE – RUSH FAMILY

- Juncus acutus* – spiny rush

POACEAE – GRASS FAMILY

- Dactylis glomerata* – orchard grass
- * *Cortaderia selloana* – pampas grass
- * *Cynodon dactylon* – Bermuda grass
- * *Festuca* sp. – fescue
- * *Lolium multiflorum* – Italian ryegrass
- * *Phalaris* sp. – Mediterranean canary grass
- * *Polypogon monspeliensis* – rabbit's-foot grass
- * *Vulpia myuros* – rattail fescue

APPENDIX B (Continued)

TYPHACEAE – CATTAIL FAMILY

Typha angustifolia – narrow-leaved cattail

* signifies introduced (non-native) species

APPENDIX C

Transect Data

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Summary Table
Plant Species and Total Percent Cover - Year 1
Transect: Wetland Transect Summary
Cumulative Transect Length: 350 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	5	0.7%	0	0%	0	0%	0	0%	0	0%
<i>Anemopsis californica</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Artemisia douglasiana</i>	65	9.3%	0	0%	0	0%	0	0%	0	0%
<i>Artemisia palmeri</i>	2	0.3%	0	0%	0	0%	0	0%	0	0%
<i>Aster sp.</i>	3	0.4%	0	0%	0	0%	0	0%	0	0%
<i>Baccharis salicifolia</i>	34	4.9%	0	0%	0	0%	0	0%	0	0%
<i>Conzya canadensis</i>	8	1.1%	0	0%	0	0%	0	0%	0	0%
<i>Cyperus eragrostis</i>	11	1.6%	0	0%	0	0%	0	0%	0	0%
<i>Epilobium angustifolium</i>	6	0.9%	0	0%	0	0%	0	0%	0	0%
<i>Isocoma menziesii</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Juncus acutus</i>	15	2.1%	0	0%	0	0%	0	0%	0	0%
<i>Pluchea odorata</i>	28	4.0%	0	0%	0	0%	0	0%	0	0%
<i>Rorippa nasturtium-aquaticum</i>	28	4.0%	0	0%	0	0%	0	0%	0	0%
<i>Salicornia virginica</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Salix exigua</i>	2	0.3%	0	0%	0	0%	0	0%	0	0%
<i>Salix gooddingii</i>	3	0.4%	0	0%	0	0%	0	0%	0	0%
<i>Salix lasiolepis</i>	27	3.9%	0	0%	0	0%	0	0%	0	0%
<i>Scirpus robustus</i>	3	0.4%	0	0%	0	0%	0	0%	0	0%
<i>Typha spp.</i>	8	1.1%	0	0%	0	0%	0	0%	0	0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Apium graveolens</i>	2	0.3%	0	0%	0	0%	0	0%	0	0%
<i>Atriplex semibaccata</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Brassica nigra</i>	2	0.3%	0	0%	0	0%	0	0%	0	0%
<i>Chenopodium murale</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Gnaphalium luteo-album</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Lythrum hyssopifolia</i>	2	0.3%	0	0%	0	0%	0	0%	0	0%
<i>Melilotus officinalis</i>	9	1.3%	0	0%	0	0%	0	0%	0	0%
<i>Picris echioides</i>	88	12.6%	0	0%	0	0%	0	0%	0	0%
<i>Polypogon monspeliensis</i>	47	6.7%	0	0%	0	0%	0	0%	0	0%
<i>Portulaca oleracea</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Rumex crispus</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%
<i>Sonchus arvensis</i>	2	0.3%	0	0%	0	0%	0	0%	0	0%
<i>Vulpia myuros</i>	1	0.1%	0	0%	0	0%	0	0%	0	0%

No Vegetation

Bare/debris/rock	354	50.6%	N/A							
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	410	58.6%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	251	35.9%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	159	22.7%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	53.7%									
Total Native % Relative Cover	32.9%									
Total Non-native % Relative Cover	20.8%									
Total Bare/Litter % Relative Cover	46.3%									

Table 1
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #1
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	2	4%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	3	6%		0%		0%		0%		0%
<i>Conzya canadensis</i>	2	4%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	0	0%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	2	4%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	1	2%		0%		0%		0%		0%
<i>Picris echioides</i>	10	20%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	30	60%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	20	40%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	9	18%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	11	22%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	40%									
Total Native % Relative Cover	18%									
Total Non-native % Relative Cover	22%									
Total Bare/Litter % Relative Cover	60%									

Table 2
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #2
Transect Length: 25 Meters

	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
Total Cover										
Native										
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	3	6%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	2	4%		0%		0%		0%		0%
<i>Conyzza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	6	12%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	1	2%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	2	4%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	1	2%		0%		0%		0%		0%
<i>Picris echioides</i>	1	2%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	37	74%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	16	32%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	14	28%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	2	4%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	30%		0%		0%		0%		0%	
Total Native % Relative Cover	26%		0%		0%		0%		0%	
Total Non-native % Relative Cover	4%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	70%		0%		0%		0%		0%	

Table 3
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #3
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	23	46%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	1	2%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	1	2%		0%		0%		0%		0%
<i>Conyzza canadensis</i>	4	8%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	1	2%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	1	2%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	3	6%		0%		0%		0%		0%
<i>Scirpus robustus</i>	3	6%		0%		0%		0%		0%
<i>Typha spp.</i>	3	6%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	1	2%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	3	6%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	16	32%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	44	88%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	40	80%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	4	8%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	73%		0%		0%		0%		0%	
Total Native % Relative Cover	67%		0%		0%		0%		0%	
Total Non-native % Relative Cover	7%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	27%		0%		0%		0%		0%	

Table 4
Plant Species and Total Percent Cover - Year 1
Transect:Riparian #4
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	4	8%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	19	38%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	1	2%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	1	2%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	2	4%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	5	10%		0%		0%		0%		0%
<i>Pluchea odorata</i>	7	14%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	0	0%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	3	6%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	17	34%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	42	84%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	39	78%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	3	6%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	71%		0%		0%		0%		0%	
Total Native % Relative Cover	66%		0%		0%		0%		0%	
Total Non-native % Relative Cover	5%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	29%		0%		0%		0%		0%	

Table 5
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #5
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	1	2%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	1	2%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	0	0%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	5	10%		0%		0%		0%		0%
<i>Pluchea odorata</i>	2	4%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	2	4%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	2	4%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	1	2%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	14	28%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	1	2%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	18	36%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	29	58%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	13	26%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	16	32%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	62%		0%		0%		0%		0%	
Total Native % Relative Cover	28%		0%		0%		0%		0%	
Total Non-native % Relative Cover	34%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	38%		0%		0%		0%		0%	

Table 6
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #6
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	2	4%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	0	0%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	0	0%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	0	0%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	0	0%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	48	96%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	2	4%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	2	4%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	0	0%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	4%		0%		0%		0%		0%	
Total Native % Relative Cover	4%		0%		0%		0%		0%	
Total Non-native % Relative Cover	0%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	96%		0%		0%		0%		0%	

Table 7
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #7
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	1	2%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	1	2%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	0	0%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	1	2%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	35	70%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	16	32%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	3	6%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	54	108%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	3	6%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	51	102%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	95%		0%		0%		0%		0%	
Total Native % Relative Cover	5%		0%		0%		0%		0%	
Total Non-native % Relative Cover	89%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	5%		0%		0%		0%		0%	

Table 8
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #8
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	1	2%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	0	0%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	2	4%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	2	4%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	20	40%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	11	22%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	1	2%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	13	26%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	37	74%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	5	10%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	32	64%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	74%		0%		0%		0%		0%	
Total Native % Relative Cover	10%		0%		0%		0%		0%	
Total Non-native % Relative Cover	64%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	26%		0%		0%		0%		0%	

Table 9
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #9
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	1	2%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	0	0%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	2	4%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	4	8%		0%		0%		0%		0%
<i>Pluchea odorata</i>	3	6%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	0	0%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	3	6%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	1	2%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	1	2%		0%		0%		0%		0%
<i>Brassica nigra</i>	1	2%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	0	0%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	15	30%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	1	2%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	20	40%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	32	64%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	13	26%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	19	38%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	62%		0%		0%		0%		0%	
Total Native % Relative Cover	25%		0%		0%		0%		0%	
Total Non-native % Relative Cover	37%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	38%		0%		0%		0%		0%	

Table 10
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #10
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	1	2%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	16	32%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	0	0%		0%		0%		0%		0%
<i>Conzya canadensis</i>	2	4%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	2	4%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	1	2%		0%		0%		0%		0%
<i>Pluchea odorata</i>	10	20%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	0	0%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	1	2%		0%		0%		0%		0%
<i>Apium graveolens</i>	1	2%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	7	14%		0%		0%		0%		0%
<i>Picris echioides</i>	2	4%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	1	2%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	14	28%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	44	88%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	32	64%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	12	24%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	76%		0%		0%		0%		0%	
Total Native % Relative Cover	55%		0%		0%		0%		0%	
Total Non-native % Relative Cover	21%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	24%		0%		0%		0%		0%	

Table 11
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #11
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	1	2%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	16	32%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	1	2%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	0	0%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	0	0%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	2	4%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	31	62%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	20	40%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	18	36%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	2	4%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	39%		0%		0%		0%		0%	
Total Native % Relative Cover	35%		0%		0%		0%		0%	
Total Non-native % Relative Cover	4%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	61%		0%		0%		0%		0%	

Table 12
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #12
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	5	10%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	1	2%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	0	0%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	1	2%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	0	0%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	1	2%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	0	0%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	3	6%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	39	78%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	11	22%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	8	16%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	3	6%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	22%		0%		0%		0%		0%	
Total Native % Relative Cover	16%		0%		0%		0%		0%	
Total Non-native % Relative Cover	6%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	78%		0%		0%		0%		0%	

Table 13
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #13
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	0	0%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	4	8%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	0	0%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	0	0%		0%		0%		0%		0%
<i>Salix gooddingii</i>	1	2%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	2	4%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	0	0%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	0	0%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	0	0%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	0	0%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	43	86%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	7	14%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	7	14%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	0	0%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	14%		0%		0%		0%		0%	
Total Native % Relative Cover	14%		0%		0%		0%		0%	
Total Non-native % Relative Cover	0%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	86%		0%		0%		0%		0%	

Table 14
Plant Species and Total Percent Cover - Year 1
Transect: Riparian #14
Transect Length: 25 Meters

Total Cover Native	Year 1		Year 2		Year 3		Year 4		Year 5	
	Intercepts (# Hits)	Percent Cover (%)								
<i>Ambrosia psilostachya</i>	0	0%		0%		0%		0%		0%
<i>Anemopsis californica</i>	0	0%		0%		0%		0%		0%
<i>Artemisia douglasiana</i>	0	0%		0%		0%		0%		0%
<i>Artemisia palmeri</i>	0	0%		0%		0%		0%		0%
<i>Aster sp.</i>	0	0%		0%		0%		0%		0%
<i>Baccharis salicifolia</i>	4	8%		0%		0%		0%		0%
<i>Conyza canadensis</i>	0	0%		0%		0%		0%		0%
<i>Cyperus eragrostis</i>	0	0%		0%		0%		0%		0%
<i>Epilobium angustifolium</i>	0	0%		0%		0%		0%		0%
<i>Isocoma menziesii</i>	0	0%		0%		0%		0%		0%
<i>Juncus acutus</i>	0	0%		0%		0%		0%		0%
<i>Pluchea odorata</i>	3	6%		0%		0%		0%		0%
<i>Rorippa nasturtium-aquaticum</i>	0	0%		0%		0%		0%		0%
<i>Salicornia virginica</i>	0	0%		0%		0%		0%		0%
<i>Salix exigua</i>	2	4%		0%		0%		0%		0%
<i>Salix gooddingii</i>	2	4%		0%		0%		0%		0%
<i>Salix lasiolepis</i>	12	24%		0%		0%		0%		0%
<i>Scirpus robustus</i>	0	0%		0%		0%		0%		0%
<i>Typha spp.</i>	0	0%		0%		0%		0%		0%

Exotic, Non-native or Non Target Species

<i>Anagallis arvensis</i>	0	0%		0%		0%		0%		0%
<i>Apium graveolens</i>	0	0%		0%		0%		0%		0%
<i>Atriplex semibaccata</i>	0	0%		0%		0%		0%		0%
<i>Brassica nigra</i>	0	0%		0%		0%		0%		0%
<i>Chenopodium murale</i>	1	2%		0%		0%		0%		0%
<i>Gnaphalium luteo-album</i>	0	0%		0%		0%		0%		0%
<i>Lythrum hyssopifolia</i>	2	4%		0%		0%		0%		0%
<i>Melilotus officinalis</i>	0	0%		0%		0%		0%		0%
<i>Picris echioides</i>	0	0%		0%		0%		0%		0%
<i>Polypogon monspeliensis</i>	0	0%		0%		0%		0%		0%
<i>Portulaca oleracea</i>	1	2%		0%		0%		0%		0%
<i>Rumex crispus</i>	0	0%		0%		0%		0%		0%
<i>Sonchus arvensis</i>	0	0%		0%		0%		0%		0%
<i>Vulpia myuros</i>	0	0%		0%		0%		0%		0%

No Vegetation

Bare/debris/rock	25	50%		0%		0%		0%		0%
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Wetland Transect Summary

Absolute Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover	Intercepts	Abs. Cover
Total Vegetative Hits & % Cover	27	54%	0	0%	0	0%	0	0%	0	0%
Total Native Hits and % Cover	23	46%	0	0%	0	0%	0	0%	0	0%
Total Exotic Hits & % Cover	4	8%	0	0%	0	0%	0	0%	0	0%

Relative Cover

Total Veg. % Relative Cover	52%		0%		0%		0%		0%	
Total Native % Relative Cover	44%		0%		0%		0%		0%	
Total Non-native % Relative Cover	8%		0%		0%		0%		0%	
Total Bare/Litter % Relative Cover	48%		0%		0%		0%		0%	

APPENDIX D

Transect Photos

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Transect W-1 (5/15/08)



Transect W-2 (5/15/08)



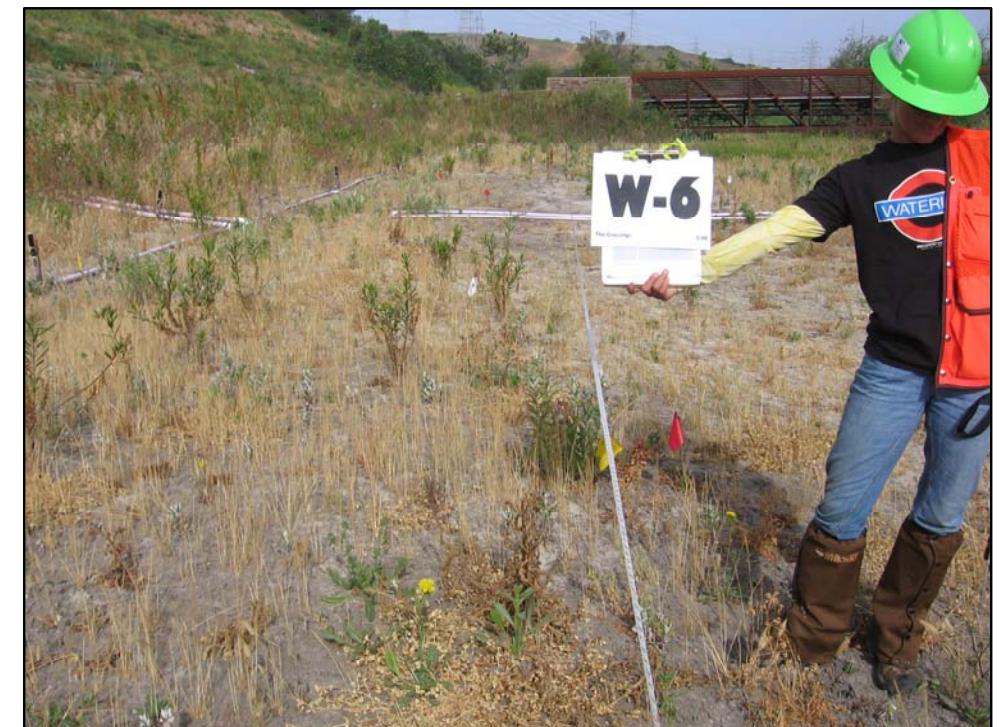
Transect W-3 (5/15/08)



Transect W-4 (5/15/08)



Transect W-5 (5/15/08)



Transect W-6 (5/15/08)

First Annual Riparian Mitigation Monitoring Report for the Crossings at Carlsbad
Photos from Established Transects

FIGURE
D1

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Transect W-7 (5/13/08)



Transect W-8 (5/13/08)



Transect W-9 (5/13/08)



Transect W-10 (5/13/08)



Transect W-11 (5/13/08)

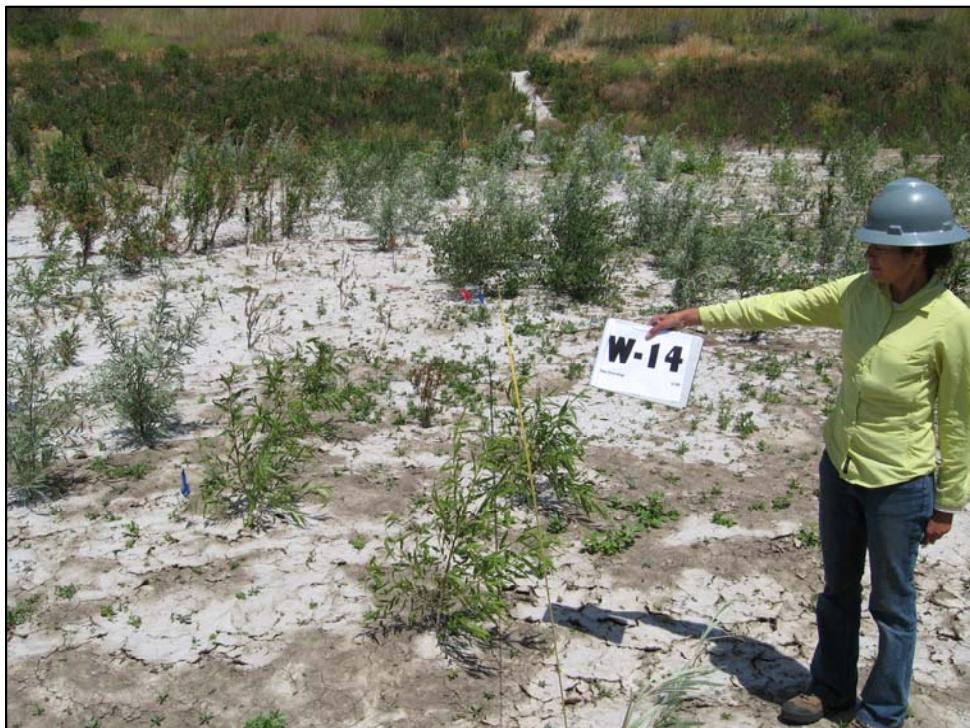


Transect W-12 (5/13/08)

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Transect W-13 (5/13/08)



Transect W-14 (5/13/08)

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